EQUIPMENT DATA

EQUIPMENT DESCRIPTION: LIGHT SOURCE, FIBEROPTIC, ENDOSCOPY

ITEM SYMBOL: M8550

MANUFACTURER: OLYMPUS **LOGCAT:** C

EXT. DIM.: 5.4"H X 14.5"W X 16.8"D **WEIGHT:** 33 LBS

SEISMIC: NO

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE: **CFM:** **S.P.**

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:			
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** 3 **WATTS:**

PHASE: 1 **HZ:** 60 **H.P.:**

REMARKS:

SPECIAL REQUIREMENTS:

Date: May 6, 2011

OLYMPUS®

M8550

EVIS EXERA XENON LIGHT SOURCE

OLYMPUS CLV-160

POWERFUL PRECISION ILLUMINATION

Assures clear, accurate observation even of distant points
thanks to powerful 300W xenon lamp coupled
with an improved condenser design
that achieves nearly 30% more light intensity
than its predecessor, the CLV-U40

EVIS EXERA XENON LIGHT SOURCE OLYMPUS CLV-160

M8550

Primary Features for Powerful Performance

- Powerful 300W xenon lamp for Olympus color CCD videoscope system.
- New and improved condenser design helps achieve nearly 1.3 times as much light intensity as the CLV-U40.
- Illumination capability to cover even more distant points assures sufficient brightness when retroflexing the scope tip, observing the lower esophagus, and more.
- Improvement in light adjustment levels helps maintain appropriate brightness even when observing at extremely close range or observing the gastric angulus from directly in front.
- 35% reduction in overall size compared to its predecessor, with width reduced by a full 80 mm, saving space in your endoscopy suite.
- Simple membrane switches and clear indicators on the front panel for improved operability.
- Compatible with conventional Olympus color CCD videoscopes and fiberscopes.

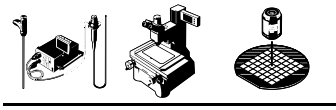
Specifications

Automatic brightness control	Automatic brightness control method	Servo-diaphragm method
	Automatic exposure	17 steps
Air feeding	Pump	Diaghragm pump
	Pressure switching	4-level switching by switches (“ OFF ”,“ L ”,“ M ”,“ H ”)
Water feeding	Method	Air pressurization or detachable water container
Indicators on front panel	Emergency lamp	Reports absence of emergency lamp, disconnection and use of emergency lamp.
	Filter	Identifies a special-purpose filter setting.
Setting memory		Settings (except filter setting) are stored by an internal battery even when the power is turned OFF.
Illumination	Lamp	Xenon short-arc lamp (ozone-free) 300 W
	Average lamp life	Approx. 500 hours on continuous use (On intermittent use, the lamp life may vary slightly.)
	Ignition method	Switching regulator
	Brightness adjustment	Light-path diaphragm control
	Cooling	Forced-air cooling
	Color conversion	Possible by using exchangeable filter
	Emergency lamp	Halogen lamp 12 V 100 W
	Average emergency lamp life	Approximately 100 hours
Classification (medical electrical equipment)	Type of protection against electric shock	Class I
	Degree of protection against electric shock of applied part	Type BF applied part (The applied part where classification types are not marked is Type BF applied part.)
Power supply	Voltage	NTSC 100–120 V AC, PAL 220–240 V AC
	Frequency	50/60 Hz
	Input current	NTSC 5 A, PAL 3 A
Size	Dimensions	370 (W) X 135 (H) X 420 (D) mm
	Weight	15 kg

Olympus business areas

Medical and health-care area

Imaging and information area



Industrial applications area

OLYMPUS®
FOCUS ON LIFE

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OLYMPUS MOSCOW LIMITED LIABILITY COMPANY
117071, Moscow, Malaya Kaluzhskaya 19, bld. 1, fl.2, Russia
OLYMPUS AUSTRALIA PTY. LTD.
1/104 Ferntree Gully Road, Oakleigh, VIC 3166, Australia

EQUIPMENT DATA

EQUIPMENT DESCRIPTION: LIGHT SOURCE, FIBEROPTIC HEADLAMP
ITEM SYMBOL: M8551
MANUFACTURER: SUN OPTICS SURGICAL **LOGCAT:** C
EXT. DIM.: 5" H X 14" W X 10" D **SEISMIC:** NO **WEIGHT:** 14 LBS.

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE: **CFM:** **S.P.**

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:			
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** 6 **WATTS:** 720

PHASE: **HZ:** 60 **H.P.:**

REMARKS:

SPECIAL REQUIREMENTS:

DATE: MAY 6, 2011

REVISED
3:37 pm, Jun 30, 2011

TITAN Headlights

TITAN Illumination System Features

- BRIGHTEST Illumination
- LARGEST SPOT Size 140mm
- FUSED FIBER increases transmission by 10%
- ULTRAGRIP HANDLE eases cable removal and aids against fiber damage
- LIFETIME WARRANTY Against Burning

TITAN 400 SPECIFICATIONS

Lamp Type	Ceramic 400 Watt Xenon
Lamp Power Rating	400 Watts
Lamp Color Temperature	5,600K
Lamp Warranty	1000 Hours Prorated
Front Panel Controls	On/Off Switch, Attenuator Control, Turret
Input Voltage Range	100 – 120 VAC 50 /60Hz, 220–240VAC 50Hz
Power Consumption	720 Watts
Regulatory	UL60601, EN 60601-1, EN 60601-1-2, CAN/CSA, C22.2, No 601.1-M90
Operating Environment	+10° to +40° C 30 to 85% 700 to 1060 hPa
Dimensions	355mm (14") W x 130mm (5") H x 250mm (10") D
Weight	6.0kg (12.4lbs.)
Rear Panel Display	Resettable Lamp Age Meter

TITAN 300 SPECIFICATIONS

Lamp Type	Ceramic 300 Watt Xenon
Lamp Power Rating	300 Watts
Lamp Color Temperature	5,600K
Lamp Warranty	1000 Hours Prorated
Front Panel Controls	On/Off Switch, Attenuator Control, Turret
Input Voltage Range	100 – 120 VAC 50 /60Hz, 220–240VAC 50Hz
Power Consumption	450 Watts
Regulatory	IEC60601–1, IEC 60601–1–2, UL60601, CSA C22.2 NO. 601.1–M90, CE
Operating Environment	+10° to +40° C, 30 to 80% Relative Humidity Non-condensing
Dimensions	355mm (14") W x 130mm (5") H x 250mm (10") D
Weight	6.0kg (13.2lbs.)
Rear Panel Display	Resettable Lamp Age Meter

TITAN 180 SPECIFICATIONS

Lamp Type	Ceramic 175 Watt Xenon
Lamp Power Rating	175 Watts
Lamp Color Temperature	5,600K
Lamp Warranty	650 Hours Prorated
Front Panel Controls	On/Off Switch, Attenuator Control, Turret
Input Voltage Range	100 – 120 VAC 50/60Hz, 220–240 VAC 50Hz
Power Consumption	250 Watts
Regulatory	IEC 60601-1, IEC 60601-1-2, UL60601, CSA C22.2 NO. 601.1-M90, CE
Operating Environment	+10° to +40° C, 30 to 80% Relative Humidity Non-condensing
Dimensions	355mm (14") W x 130mm (5") H x 250mm (10") D
Weight	6.0kg (13.2lbs.)
Rear Panel Display	Resettable Lamp Life Meter

CE

- ISO 9001 and 13485 Certified
- Reg. No. 207267 MP21

Manufactured by:

Sunoptic Technologies

LIT136

Sunoptics SURGICAL®

6018 Bowdendale Avenue • Jacksonville, Florida 32216

Phone: 877 677 2832 • 904 737 7611

www.sunopticssurgical.com

Sunoptics Surgical®

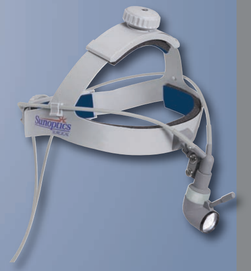
TITAN Illumination Systems

TITAN 400

Illumination Systems

400 watts of BRIGHT WHITE Light Extended Lamp Warranty
1000 hours LARGEST SPOT Size Available
Whisper Quiet Operation

FEATURES	BENEFITS
TITAN Ceramic Xenon Lamp	Consistent High Lux Output
New Heat Sink Technology	Extends Lamp Life
1,000 hour lamp warranty	Reduces cost of ownership
Advanced Air Flow Technology	Whisper Quiet Operation
Improved Turret	Recessed Multiple Application
Superior Design	Quality, Performance and Advanced Aesthetics



ORDERING INFORMATION

TITAN400ST	400watt Xenon Lightsource, 4 Port Turret
SSL0033T	Floorstand for TITAN400ST
SSX0040	Replacement Lamp Module for TITAN400ST
SG3-140-VHB	TITAN UltraGrip Dual Adjustment Headband, 140mm Silver Ring Variable Spot Module, 3.0mm Lensed BIF, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.
SG35-140-VSS	TITAN UltraGrip SPORT terry-wrap-around Sweatband, 140mm Silver Ring Variable Spot Module, 90 degree H/L end 3.0mm Lensed STR, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.

The TITAN400ST (excluding the lamp) is warranted against defects in material and workmanship for a period of three years from the date of shipment. The lamp carries a 1000 hour prorated warranty.

TITAN 300

Illumination Systems

INCREASED PERFORMANCE with BRIGHT WHITE Light
Extended Lamp WARRANTY 1000 hours
WHISPER QUIET Operation

FEATURES	BENEFITS
TITAN Ceramic Xenon Lamp	Consistent High Lux Output
New Heat Sink Technology	Extends Lamp Life
1,000 hour lamp warranty	Reduces cost of ownership
Advanced Air Flow Technology	Whisper Quiet Operation
Enhanced Safety Turret	Recessed Multiple Application
Superior Design	Quality, Performance and Advanced Aesthetics

ORDERING INFORMATION

TITAN300ST	300watt Xenon Lightsource, 4 Port Turret
SSL0033T	Floorstand for TITAN300ST
SSX0035	Replacement Lamp Module for TITAN300ST
SG3-110-VHB	TITAN UltraGrip Dual Adjustment Headband, 110mm Blue Ring Variable Spot Module, 3.0mm Lensed BIF, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.
SG35-110-VSS	TITAN UltraGrip SPORT terry-wrap-around Sweatband, 110mm Blue Ring Variable Spot Module, 90 degree H/L end 3.0mm Lensed STR, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.

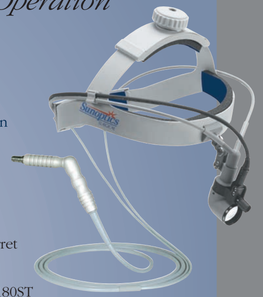
The TITAN300ST (excluding the lamp) is warranted against defects in material and workmanship for a period of three years from the date of shipment. The lamp carries a 1000 hour prorated warranty.

TITAN 180

Illumination Systems

INCREASED PERFORMANCE with BRIGHT WHITE Light
Enhanced QUALITY Whisper Quiet Operation

FEATURES	BENEFITS
650 hr Prorated Lamp Life	Reliable Operation
Advanced Air Flow Technology	Whisper Quiet Operation
Enhanced Safety Turret	Recessed Multiple Application
Superior Design	Quality, Performance and Advanced Aesthetics



ORDERING INFORMATION

TITAN180ST	180watt Xenon Lightsource, 4 Port Turret
SSL0033T	Floorstand for TITAN180ST
SSX0049	Replacement Lamp Module for TITAN180ST
SG3-110-VHB	TITAN UltraGrip Dual Adjustment Headband, 110mm Blue Ring Variable Spot Module, 3.0mm Lensed BIF, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.
SG35-110-VSS	TITAN UltraGrip SPORT terry-wrap-around Sweatband, 110mm Blue Ring Variable Spot Module, 90 degree H/L end 3.0mm Lensed STR, Gray Cable with fused fiber and UltraGrip Handle, Blue Headlight Bag.

The TITAN180ST (excluding the lamp) is warranted against defects in material and workmanship for a period of three years from the date of shipment. The lamp carries a 650 hour prorated warranty.

EQUIPMENT DATA

EQUIPMENT DESCRIPTION: SUCTION UNIT, ENDOSCOPY

ITEM SYMBOL: M8557

MANUFACTURER: OLYMPUS **LOGCAT:** C

EXT. DIM.: 15-1/2”H X 13”W X 9-1/2”D

SEISMIC: NO **WEIGHT:** 12.76 LBS

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE: **CFM:** **S.P.**

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:	22”	HG	
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** 1 **WATTS:**

PHASE: 1 **HZ:** 60 **H.P.:**

REMARKS:

SPECIAL REQUIREMENTS:

KV-II Two level endoscopic suction pump

The KV-II suction pump is a compact unit which generates steady atraumatic suction specifically designed for endoscopic use. A switch at the suction intake sets the suction level at either 12″ Hg or 24″ Hg. This extra suction power is often needed during bronchoscopic aspiration or when a long colonoscope is used.

Features:
* Low height for cart shelf mounting.
* Two autoclavable bottles total capacity 3 liters.
* Bottles, vacuum gauge, on/off switch and suction level switch all positioned at front of unit for easy access and visibility.
* Heavy duty motor provides long term reliability. Quiet in operation.
* Supplied with disposable filters with built-in flow cut-off for added safety.
* Autoclavable overflow protection device.
* Quick release autoclavable bottle cap for one hand operation.

Catalog No: 55455

Dimensions:
15½″ High
13″ Wide
9½″ Deep

Weight: 8.9 kg
Power: 115V, 60 Hz
Vacuum Attained:
12″ Hg or 24″ Hg

SSU Suction unit

With the recent rise in popularity of flexible sigmoidoscopy and the greater use of self contained carts there is a need for a small, quiet, pump to fit unobtrusively on the cart with the other necessary equipment. The SSU meets these requirements.

Features:
* Compact and portable.
* Low height for cart shelf mounting.
* Autoclavable 1.5 liter bottle.
* Autoclavable overflow protection device.
* Quick release autoclavable bottle cap.
* Supplied with a disposable filter with built in flow cut off for added safety.

Catalog No: 55450

Dimensions:
11½″ High
10½″ Wide
9½″ Deep

Weight: 5.8 kg
Power: 115 V, 60 Hz
Vacuum Attained: 22″Hg

EQUIPMENT DATA

EQUIPMENT DESCRIPTION: ENDOSCOPY CART, FIBEROPTIC, W/VIDEO ACCESSORIES
ITEM SYMBOL: M8606
MANUFACTURER: OLYMPUS AMERICA, INC. HEALTHCARE SERVICES
LOGCAT: C
EXT. DIM.: 46.76" H X 19.35" W X 22.68" D
SEISMIC: NO **WEIGHT:** 61.6 LBS

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE: **CFM:** **S.P.**

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:			
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** 20 **WATTS:**

PHASE: 1 **HZ:** **H.P.:**

REMARKS:

SPECIAL REQUIREMENTS:

DATE: MAY 6, 2011

REVISED
12:01 pm, Jul 01, 2011

OLYMPUS

TC-C1 CLINICAL TROLLEY

A further product in a design co-ordinated endoscopy support range

OLYMPUS Ancillary Products

TC-C1 CLINICAL TROLLEY

A DEDICATED VIDEO OUT-PATIENT TROLLEY

The Olympus Ancillary Product range includes a complete family of procedure trolleys, designed to be practical and space-efficient wherever they are used. Ergonomically designed, with many innovative features, they are more than just trolleys, they are unique, purpose-designed mobile workstations.

The **Olympus TC-C1 Clinical Trolley** has been developed specifically for the out-patient environment and with video flexible sigmoidoscopy, cystoscopy, hysteroscopy and ENT procedures in mind.

Three versions of the TC-C1 trolley are available:

- Base model TC-C1 Trolley.
- TC-C1 Trolley and videosigmoidoscope hanger.
- TC-C1 Trolley, IV pole, camera head mount and CYF/HYF/ENF scope hanger.

FEATURES INCLUDE:

- **Compact** – space-efficient for use in what is so often a cramped working environment.
- **Aesthetically pleasing design** – to fit in with the modern clinical environment.
- **Mobile** – with four 100mm castors, two diagonally opposed with brakes.
- **Top Shelf** – to accommodate a 14" monitor (a safety strap is provided for additional security).
- **Fixed Second Shelf** – to accommodate a camera control unit and light source.
- **Adjustable Third Shelf** – to accommodate user specified equipment, such as video printer or video recorder.
- **Base Tray** – capable of accommodating an isolation transformer or other ancillary devices to meet individual user needs.
- **Integral Handle** – ideally positioned for easy manoeuvrability.
- **Colour co-ordinated bumper protection on all four corners** – to prevent accidental damage to walls, doors and paintwork.
- **Accessories** – basic trolley can be enhanced with the addition of IV pole, camera head mount and scope holder, all available as options.
- **Back Panel** – is available to provide a fully enclosed workstation.
- **Plug block kit** - a multiway plug block kit is available reducing the number of trailing cables.

CONSTRUCTION:

Olympus workstations designed and manufactured by KeyMed, have an enviable reputation for performance and durability – the TC-C1 is no exception.

Built to an exhaustive quality standard, the all metal frame and shelf construction are electrostatically powder painted and will be highly durable in use.

CYF/HYF/ENF Scope Hanger

Camera Head Mount

SPECIFICATION:

Dimensions:	483(W) x 1169(H) x 567(D) mm
Height with IV Pole in Lowest Postion:	1390.5 mm
Unladen Weight:	28 kg
Maximum Carrying Capacity:	100 kg

Olympus reserves the right to alter the specification without notice.

OLYMPUS®

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(Premises/Goods delivery) Wendenstraße 14-18, 20097 Hamburg, Germany
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491B River Valley Road #12-01/04, Valley Point Office Tower, Singapore 248373, Singapore

ISO 9001 Registered
Certificate No. FM 20993

Issue 1: September 2002

Printed in UK GPS 5047919/902

M8606 NBI

Main Features

- Equipped with specially coated filters for NBI (Narrow Band Imaging).
- Automatically switches off when the unit has not been used for an extended period of time.
- Automatically adjusts light intensity to achieve ideal illumination for observation of the gastrointestinal tract.
- Powerful 300-watt xenon lamp.
- Backlit front panel indicators and controls improve operability.
- Equipped with special filter* for PDD (Photo Dynamic Diagnosis)
  *Optionally available only in Europe.

Specifications

Automatic brightness control	Automatic brightness control method	Servo-diaphragm method
	Automatic exposure	17 steps
Air feeding	Pump	Diaphragm type pump
	Pressure switching	4-level switching (off, low, mid, high)
Water feeding	Method	Air pressurization or detachable water container
Indicators on front panel	Emergency lamp	Separate detection of emergency lamp, disconnection and use of emergency lamp.
	NBI mode	Separate preparation and use of NBI mode.
Setting memory		Settings (except filter setting) are stored even when the light source is OFF.
Illumination	Examination Lamp	Xenon short-arc lamp (pressurized) 300 W
	Average lamp life	Approx. 500 hours on continuous use (With intermittent use, the lamp life may vary slightly.)
	Ignition method	Switching ignition
	Brightness adjustment	Light-path diaphragm control
	Cooling	Forced-air cooling
	Color correction	Possible by using special-purpose filter
	Emergency lamp	Halogen lamp (within rated) 12 V 35 W
	Average emergency lamp life	Approximately 500 hours
Classification as medical electrical equipment	Type of protection against electric shock	Class I
	Degree of protection against electric shock of applied part	Type BF applied part NOTE: The applied part classification types are not marked in Type BF applied part.
	Degree of protection against explosion	Use prohibited in flammable environment.
Power supply	Voltage	100–120 V, 220–240 V AC
	Voltage fluctuation	Within ±10%
	Frequency	50/60 Hz
	Frequency fluctuation	Within ±1 Hz
	Consumption electric power	350VA
	Fuse rating	6A, 250V
	Fuse size	5.0 mm x 20 mm
Size	Dimensions	401 (W) X 163 (H) X 500 (D) mm (maximum)
	Weight	16.4 kg

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

OLYMPUS

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OLYMPUS MEDICAL SYSTEMS CORP.
OLYMPUS WINTER & IBE GMBH
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M8606

Accessories:

- Light Sources
- Light Guide Cables
- **Insufflation & Irrigation**
- Electrosurgery
- Diathermy Cables
- Ultrasonic Dissection
- Workstations
- Video Monitors
- Video Recorders
- Video Printers

Insufflation & Irrigation

Olympus UHI-3 High Flow Insufflation Unit

The Olympus UHI-3 supplies up to 35 L/min gas supply, quickly responding to gas leakages to return the pneumoperitoneum to the preset pressure level.

Automatic relief - when abdominal pressure becomes too high, a warning lamp and an alarm are activated, and a pinch valve on the suction tube opens automatically to release excess pressure.

Low noise design - noise is kept low through an innovative mechanism in the electromagnatic valve.

Three main flow settings - the flow rate can be quickly set to pre-set levels: Low, Medium or High.

Check critical data at a glance - actual and preset pressures are displayed simultaneously, allowing instant monitoring.

Connectable to medical gas pipeline - the UHI-3's pressure control mechanism allows connection to a hospital medical gas pipeline, eliminating the need for handling gas cylinders.

Smoke evacuation system - operation of the optional footswitch provides evacuation of the smoke and mist generated during electrosurgery and ultrasonic procedures.

When the UHI-3 is connected to the Olympus SonoSurg Ultrasonic Surgical System, smoke and mist evacuation begins simultaneously with ultrasonic output. Just press the footswitch of the SonoSurg generator and evacuation begins, so keeping the view clear for safe surgery.

Olympus SurgiPump Suction / Irrigation Unit

The SurgiPump provides the necessary suction and irrigation to ensure clear visibility during laparoscopic procedures.

Double peristaltic pump heads deliver reliable suction and irrigation performance from the Olympus SurgiPump.

Olympus EcoPump Suction / Irrigation Unit

The EcoPump incorporates effective irrigation performance to support laparoscopic procedures where central suction is available.

With the EcoPump, Olympus offers an efficient and cost-effective irrigation system which can be combined with a central suction line. Both funtions, suction and irrgation, are controlled with one hand.

The suction/irrgation probes are available in three diameters (10, 5 & 3mm).

Autoclavability of the complete system (instrument & tubing) provides safe and cost-efficient performance.

For further details on products available from **Olympus Surgical America** please call our customer services team on 800 548 5515 or complete our on-line inquiry form.

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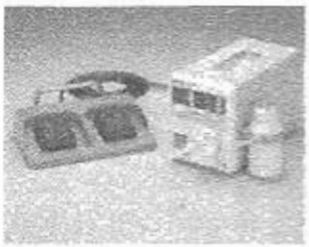
OLYMPUS Your Vision, Our Future

Heat Probe

Olympus HPU-20 HeatProbe Unit
Ensuring reliable haemostasis

With semi-disposable autoclavable pump, water bottle and probes, the HPU-20 can be made ready for use at a moment's notice, providing fast, effective haemostasis, particularly in emergency situations, in the GI tract.



Haemostasis is achieved by a special heat-generating device built into the tip of the probe, allowing selection from six heat levels to suit the clinical application. Water irrigation from the probe tip, with four levels of adjustment, washes the site to aid accurate positioning, while a special coating on the probe tip prevents it adhering to the mucosa. The two-pedal footswitch provides easy operation of both heating and irrigation functions.

Two probes are available for use with the HPU-20, the Olympus CD-110U and CD-120U, compatible with GI scopes having 3.7mm and 2.8mm instrument channels respectively.

Accessories:

- Light Sources
- Light Guide Cables
- Insufflation & Irrigation
- **Electrosurgery**
- Diathermy Cables
- Ultrasonic Dissection
- Workstations
- Video Monitors
- Video Recorders
- Video Printers

Electrosurgery

Olympus UES-40 Electrosurgery Unit
The UES-40 delivers a whole new level of sophistication to procedures. Utilizing an advanced automatic output control system, it monitors and regulates output to optimize both cutting and coagulation. In other words, cutting is sharper, coagulation is smoother, and reliability and efficiency are greatly enhanced, freeing the surgeon to concentrate on the procedure.

The Olympus UES-40 SurgMaster generator can provide a complete solution for all electrosurgery needs, including resection in saline. This single unit allows the surgeon to perform TURis, conventional monopolar resection and also to connect two bipolar and two monopolar hand instruments.

The UES-40 is compatible with the SonoSurg Ultrasonic Surgical System, allowing high-frequency output using its transducer, further expanding surgical possibilities.

For further details on products available from **Olympus Surgical America** please call our customer services team on 800 548 5515 or complete our on-line inquiry form.

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OEP-3 Color Video Printer

The Olympus OEP-3 Color Video Printer combines excellent print quality with fast print speed. The OEP-3 is a medical-grade printer that incorporates dye-sublimation technology to produce high-resolution endoscopic images in approximately 20 seconds in NTSC mode. As many as 8 frame-quality color images can be stored in memory, while a new color adjustment function lets you select the color that most closely matches your needs. And its compact size ensures a comfortable fit on most video carts or in places where space is limited.

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Features
Specifications
Certified Repair
Service

Specifications

OEP-3 Color Video Printer		
Printing Method	Dye Sublimation Printing	
Resolution	Approx. 300 dpi (2048 dots)	
Gradations	256 gradations for Yellow, Magenta, Cyan Over 16.7 million colors per dot	
Effective Print Pixels	NTSC: 976 x 1,920 dots PAL: 1,176 x 1,920 dots	
Print Area	NTSC	126.2 x 165.1 mm (5 x 6 ½ inches) - Full 117.0 x 170.9 mm (4 3 5 x 6 ¾ inches) - 2 Splits 128.2 x 167.1 mm (5 x 6 ½ inches) - 4 Splits 117.9 x 170.9 mm (4 3 5 x 6 ¾ inches) - 8 Splits 129.2 x 165.1 mm (5 x 6 ¾ inches) - 16 Splits
	PAL	127.4 x 165.1 mm (5 x 6 ½ inches) - 16 Splits 119.0 x 170.9 mm (4 2 3 x 6 ¾ inches) - 8 Splits 126.9 x 167.1 mm (5 x 6 ½ inches) - 4 Splits 117.0 x 170.9 mm (4 3 5 x 6 ¾ inches) - 2 Splits 124.8 x 165.1 mm (5 x 6 ½ inches) - Full
Paper Size	A5 Size, 148x210mm (5 7/8 x 8 3/8 inches)	
Printing Time (High-speed mode)	**UPC-510**	**UPC-540/540MD**
NTSC	Approx. 20 seconds	Approx. 31 seconds
PAL	Approx. 22 seconds	Approx. 33 seconds
Memory	8 Frame Memories	
Control Connector	Remote 1 (special mini) for MAJ-898 Remote Remote 2 (stereo mini) Remote 3 (D-sub 9-pin) RS-232C interface port (D-sub 25-pin)	
Inputs/Outputs	Video, S-Video, RGB	

M8606 HDTV NBI

Main Features

- Equipped with high resolution HDTV imaging capability to provide the best possible image quality for endoscopes and laparoscopes, enabling observation of capillaries, mucosal structures, and other patterns.
- Compatible with EVIS 100/130/140 Series and EVIS EXERA 160 Series endoscopes in addition to EVIS EXERA II 180 Series models as well as bronchoscopes and surgical endoscopes (EndoEYE videoscopes, flexible VISERA videoscopes, and VISERA 1CCD/OTV-SP1 3CCD camera heads).
- NBI (Narrow Band Imaging) to enhance the visibility of capillaries and other structures on the mucosal surface (only for GI).
- Two types of structure enhancement are available — the original Type A for observation of larger mucosal structures with high contrast and the new Type B for observation of smaller structures, such as capillaries.
- Electronic magnification enlarges moving images at the touch of a button on the scope or on the keyboard by 1.2X or 1.5X.
- HD/SD SDI output for high-quality video image transfer.
- Convenient digital-to-digital recording of both still and moving images. Still images are stored on xD cards via PC card adapter, and moving images are stored on digital video recorders via IEEE 1394 (FireWire, DV, iLINK) using remote control switches.
- Automatic Iris eliminates the need for switching between Peak and Average required in conventional manual adjustment.
- Picture-in-picture display for any combination of endoscopic images, fluoroscopic images, ultrasound images, laparoscopic images, and images from the endoscope position detecting unit.
- Convenient index display for documentation.
- Scope ID function for easier endoscopy suite management and for next-generation system expansion.

Specifications

Observations	HDTV signal output	Either RGB or YPbPr output can be selected		
	SDTV signal output	VBS composite (NTSC/PAL), Y/C and RGB; simultaneous output possible.		
	White balance adjustment	White balance adjustment is possible using the white balance switch on the front panel.		
	Standard color chart output	A color bar chart can be displayed.		
	Color tone adjustment	The following color tone adjustments are possible. Red, Blue, Chroma adjustment; ±8steps		
	Automatic gain control (AGC)	The image can be electrically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.		
	Contrast	The image contrast can be set to one of the following three modes (N, H, L). ・N (Normal): Normal image. ・H (High): The dark areas are darker and the bright areas are brighter than in the normal image. ・L (Low): The dark areas are brighter and bright areas are darker than in the normal image.		
	Iris	The auto iris modes can be selected. Peak: For use when observing by focusing on a small bright area. Auto: For use when observing by focusing on the image center.		
	Image enhancement setting	Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected.		
	Switching the enhancement modes	The enhancement level can be selected from 4 levels (OFF, 1, 2 and 3).		
	Image size selection	The size of endoscopic image can be changed.		
	Reset to defaults	The following settings can be reset to their defaults. ・User preset・Image source・Color tone・Freeze・Release index・ Zoom・Special light observation ・Arrow pointer・Stop watch・Character on screen・Exposure・PinP		
	Freeze	An endoscopic image is frozen.		
Documentation	Remote control	The following ancillary equipment can be controlled. (Specified models only) ・VCR・Video printer・Image filing system・Endoscopic ultrasound center, etc.		
	Patient data	The following data can be displayed on the monitor by keyboard. ・Patient ID No.・Patient name・Sex & age・Date of birth・Date of recording (time, stopwatch)・Image frame No. ・Videotape recorder mode・Display image setting・Physician name・Comments		
	Advance registration of patient data	The following data of up to 40 patients can be entered prior to surgery. ・Patient ID No.・Patient name・Sex & age・Date of birth・Physician		
PC card	Media	xD-Picture Card (1G/512/256/128/64/32/16 MB), specified by Olympus. MAPC-10 can be used as PC card adapter.		
	Recording format	TIFF: no compression, SHQ: approx. 1/5, HQ: approx. 1/7, SQ: approx. 1/10.		
	Number of recording images	In 16 MB, SDTV/HDTV, TIFF: approx. 30/6 images, SHQ: approx. 310/110 images, HQ: approx. 2000/760 images, SQ: approx. 2570/430 images.		
Image storage and retrieval	Monitor output	Using the monitor out switches on the front panel, it is possible to select an image from the endoscope or ancillary equipment for display on the monitor.		
Memory backup	Memorization of selected setting	The following setting are held in memory even after the video system center is turned OFF. ・White balance・Iris mode・Enhancement・Image size・Color tone		
Classification as medical electrical equipment	Type of protection against electric shock	Class I		
	Degree of protection against electric shock of applied part	Depend on applied part. See also applied part (Camera head videoscope).		
	Degree of protection against explosion	The video system center should be kept away from flammable gases.		
Power supply	Voltage (Voltage fluctuation)	220-240V AC (Within ±10%)		
	Frequency (Frequency fluctuation)	50/60 Hz (Within ±1%)	Consumption electric power	150 VA
Size	Fuse rating	5A, 250V	Fuse size	φ5 × 20 mm
	Dimensions	382 (W) × 91 (H) × 490 (D) mm	Weight	10.5kg

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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www.olympus.com

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M8606

LCD Flat Panel Displays (Medical Grade)

IS20045	National Display 15" 1024 x 768 Composite, S-Video, RGBS, VGA, YPbPr
OEV191	Olympus 19" 1280 x 1024 Composite, S-Video, RGBS
IS20090	National Display 19" 1280 x 1024 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
IS20190	National Display 23" 1920 x 1200 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
IS20197	National Display 26" 1920 x 1200 Composite, S-Video, RGBS, SDI, VGA, DVI, YPbPr, HD-SDI
IS20290	National Display 32" 1366 x 768 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
OEV191H	Olympus 19" 1280 x 1024 Composite, S-Video, RGBS,VGA
MAJ - 1431	This adapter is needed on OEV191H to have HD-SDI, SDI

Display Mounting Systems - For desk, Wall and Boom Systems

OIS-08505	Rollstand to support up to 32-inch LCDs
FLP-0008-02	Tabletop Stand for LCD Display
OL-0013-01	Pivot Arm Wall Mount for LCD Flat Panel Monitors 12" maximum extension
FLP-0009-05	Pivot Arm Wall Mount for LCD Flat Panel Monitors 16.5" maximum extension
FLP-0001-13D	Variable Height Monitor Arm
K7504373	MAJ-132 "A" Kit Flat Panel Workstation Monitor Mount
K7505524	MAJ-132 "B" Kit Flat Panel Workstation Monitor Mount
WC-0002-04	Wall Channel
IS72032	PLT-BLK PEERLESS FLAT PANEL TABLE TOP STAND FOR 42" & 50" PAN PLASMA

EQUIPMENT DATA

EQUIPMENT DESCRIPTION: ENDOSCOPY CART, FIBEROPTIC, W/VIDEO, INFO MGMT
ITEM SYMBOL: M8607
MANUFACTURER: OLYMPUS AMERICA, INC. MEDICAL SYS. **LOGCAT:** C
EXT. DIM.: 54"H X 31.3"W X 25.6"D **WEIGHT:** 198 LBS, CART ONLY
SEISMIC: NO

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE: **CFM:** **S.P.**

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:			
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** 8 **WATTS:**

PHASE: 1 **HZ:** 60 **H.P.:**

REMARKS:

SPECIAL REQUIREMENTS:

OLYMPUS

WM- WP1 – Wide Workstation

Dimensions (mm)	Height: 1370 (scope in lowest position) / 2140 (54”) (scope in highest position) 1160 (to top tray) 1826 max (with 19” LCD monitor highest position) Depth: 650 (25.6”) Width: 795 (31.3”)
Weight	90 kg, including fitted transformer
Load capacity (evenly distributed)	Top tray: 20 kg Intermediate shelves: 31kg each Base panel; 31kg Note: Equipment stored on the mobile workstation should not exceed the size of the shelf.
Castors	4 x 125 mm non-antistatic, two with brakes
Ambient temperature	Storage: -40°C to +70°C (-40°F to +158°F) / Operation: 10 to 40°C (50 - 104°F)
Relative humidity	95

- 1 x integral separation transformer with 12 x IEC-IEC mains sockets (rating of transformer varies by market)
- 1 x universal IEC lead set (1 x 2.5 m, 5 x 1.5m, 3 x 0.8 m)
- 1 x workstation (including 2 shelves)
- 4 x non-antistatic castors
- 1 x water bottle clip
- 1 x cable hangar
- 1 x set of blanking caps
- 2 x MAJ-150 adaptor cables
- 1 x combined umbilical connector/camera head holder
- 1 x tools and fixings
- 1 x instructions for use

All other accessories will be user selectable to allow the customer to configure the workstation for either medical or surgical use.

Keyboard Tray – Sliding: MAJ-179

For those customers who configure their procedure room to allow access to the front of the workstation, this option will be ideal. If they are already a WM-N60 or WM-D60 user, this approach will be familiar to them. The keyboard tray is mounted on two ultra smooth runners for ease of use,

Scope Pole: MAJ-18
This innovative design allows the stored endoscope to be ideally positioned for the user, providing increased flexibility. The scope pole can be located on either the left or right-hand side of the workstation and is adjustable in height, depending on the preference of the user. It can also be used

CLV-S40

Superior Lighting for any Endoscopy Site

CLV-S40 Xenon Light Source
Ideal for Endoscopic TV oberservation connectable with conventional telescopes, fibrescopes, Visera videoscopes and OES fibrescope. Adaptable to all endoscopic procedures: The powerful and convenient CLV-S40 makes endoscopic procedures easier then ever.

Powerful & Long-Life 300-Watt Xenon Lamp
This high-quality xenon lamp provides an illumination which is ideal for endoscopy, allowing observation in deep sites or advanced techniques. Plus, it can be used continuously for 500 hours (in intermittent use, lamp life time may differ slightly).

Automatic Brightness Control
When the CLV-S40 is connected via a light guide cable to video systems such as the Visera system; brightness can be automatically adjusted, saving your time and energy.

Standby
Illumination can be set to standby using a switch on the front panel or a remote switch on the camera head.

Intensity-Mode Memory
With Intensity-Mode Memory, when the CLV-S40 is turned off in the high intensity mode, it will still be in that mode when turned back on. This is also true for the normal intensity mode.

Easy-to-See Front Panel
You can easily adjust brightness and power with buttons and switches on the front panel.
Click here for VISERA

Specifications for CLV-S40

Power Requirements	Voltage (AC) (see electrical ranging plate)	120V, 220V, 230V, 240V
	Frequency	50/60 Hz
	Input	6A (120V), 3A (220V, 230V, 240V)
	VoltageFluctuation	
Size	Dimensions	295 (W) x 125 (H) x 395,4 (D) mm (maximum)
	Weight	12 kg
Illumination	Lamp	Xenon short arc lamp (ozone-free) 300W
	Lamp Life	Approx. 500 hours in continious use
		(In intermittent use, lamp life may differ slightly)
	Ignition	Switch regulator
	Brightness Adjustment	Light-path diaphragm control
	Cooling	Forced-air cooling
	Emergency lamp	Halogen lamp (withour mirror) 24V 150W
	Emergency Lamp Life	Approx. 500 hours in continious use
		(In intermittent use, lamp life may differ slightly)
Visual Oberservation	Control Method (automatic)	Servo-diaphragm
Video System	Automatic Sensitivity (automatic)	17 steps
Front Panel	Emergency Lamp Indicator	Indicates that the emergency lamp is operating and flashes when the emergency lamp is broken
Intensity-Mode Memory Indicator		Indicates that Intensity-Mode is selected
Standby-Mode Indicator		Indicates that Standby-Mode is selected
Setting Retention		Selected settings are retained when the light source is switched off

M8607

THE FOCUSONE™ VIDEOSCOPE

Unsurpassed image quality and ease-of-use

While a clear view is essential in making a diagnosis, ease-of-use is essential in making it timely and effective. The Focus*One* Videoscope System provides both. Designed specifically for in-office use, Focus*One* is compact, mobile, and easy to operate. And Focus*One* delivers the same true color, high-resolution video imaging that has become the trademark of Olympus endoscopes worldwide.

FocusOne™ Video Processor and Light Source (CV-60)

- Full-screen, High-resolution Imaging: Color Charge Coupled Device (CCD) video technology delivers a realistic, natural color image to help observe changes in mucosa
- Streamlined, Straightforward Controls: brightness, white balance, and all other functions are easily accessible to a single operator
- Designed for In-office Use: easy to move and store for maximum convenience in busy offices
- Fast and Reliable: 150-watt halogen lamp delivers instantaneous, full-lumen output and consistent light distribution; built-in backup lamp can be manually engaged if primary light source fails
- Cost-effective: compact design, simplicity of operation, and instant illumination reduce manpower needs and save time in your practice

The In-office System Designed for Accuracy and Efficiency

FocusOne™ Flexible Video Sigmoidoscope (OSF-V60)

- Patient-focused Design: slim insertion tube eases insertion and minimizes patient discomfort
- Responsive Fingertip Control: control section allows a single operator to easily perform all scope functions
- Versatile: large working channel delivers strong suction and accommodates a wide variety of Endo-Therapy instruments
- Easy to Reprocess: completely immersible for automated or manual disinfection by the Olympus line of endoscope disinfectors

M8607

The FocusOne™ Screening System

CV-60 SPECIFICATIONS

- Dimensions 160 mm (H) x 295 mm (W) x 400 mm (D)
- Weight 13 kg (28.7 lb)
- Voltage 100-120 VAC
- Frequency 50/60 Hz
- High-resolution, full-screen image
- 150-watt halogen bulb with emergency backup
- Integral light source and air pump
- UL 2601 standard, type "Body Floating"
- Mavigraph remote capable
- Light source compatible with Olympus OES and OSF Fiberscopes

OSF-V60 SPECIFICATIONS

- Field of view 145°
- Depth of field 3-100 mm
- Insertion tube diameter 11.3 mm
- Distal end diameter 12.2 mm
- Working length 730 mm
- Angulation 180° up/down, 160° left/right
- Channel size 3.2 mm
- Right/Left angulation brake
- Remote mavigraph print switch

U Ultrasound | S Service | S Software | NA National Accounts | FS Financial Solutions | ET Endo-Therapy | E Endoscopes | E Education | CD Cleaning&Disinfection | B Bronchoscopy

OLYMPUS® PRODUCT LINE

ENF-PF RHINOLARYNGOSCOPE

MRX RECIRCULATING PUMP

CLK-4 LIGHT SOURCE

OSF-3 FIBEROPTIC SIGMOIDOSCOPE

MV-2 DISINFECTOR

GERMICIDE TRANSFER PUMP

MV-1 DISINFECTOR

SSU-2 SUCTION PUMP

PORTAVIEW BRONCHOSCOPE TP

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OEP-3 Color Video Printer

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Features
Specifications
Certified Repair Service

Specifications

OEP-3 Color Video Printer		
Printing Method	Dye Sublimation Printing	
Resolution	Approx. 300 dpi (2048 dots)	
Gradations	256 gradations for Yellow, Magenta, Cyan Over 16.7 million colors per dot	
Effective Print Pixels	NTSC: 976 x 1,920 dots PAL: 1,176 x 1,920 dots	
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Paper Size	A5 Size, 148x210mm (5 7/8 x 8 3/8 inches)	
Printing Time (High-speed mode)	**UPC-510**	**UPC-540/540MD**
NTSC	Approx. 20 seconds	Approx. 31 seconds
PAL	Approx. 22 seconds	Approx. 33 seconds
Memory	8 Frame Memories	
Control Connector	Remote 1 (special mini) for MAJ-898 Remote Remote 2 (stereo mini) Remote 3 (D-sub 9-pin) RS-232C interface port (D-sub 25-pin)	
Inputs/Outputs	Video, S-Video, RGB	

OFP Flushing Pump

Clear out debris and improve your ability to observe, maneuver, and diagnose during endoscopic exams with the OFP Flushing Pump. Specifically designed for use with particular Olympus' EVIS EXERA™ videoscopes that incorporate a dedicated auxiliary water channel, the OFP is a peristaltic pump that can supply sterile water at the touch of a button or by means of a foot-switch. It also has an automatic cut-off feature after 20 seconds of continuous operation and includes autoclavable tubing and container for easy cleaning and maintenance.

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Features

Features & Benefits

- Small and compact size for convenient use, placement, and storage
- Easy-to-operate via foot-switch or remotely when combined with the CV-160 video processor
- Pump head is easy to connect and operate thereby reducing set-up time
- Automatic cut-off feature means the OFP will automatically cease supplying sterile water after 20 seconds of continuous operation
- Adjustable flow rate
- Tubing and container are autoclavable

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LCD Flat Panel Displays (Medical Grade)

IS20045	National Display 15" 1024 x 768 Composite, S-Video, RGBS, VGA, YPbPr
OEV191	Olympus 19" 1280 x 1024 Composite, S-Video, RGBS
IS0750	VTS 18" 1280 x1024 Composite, S-Video, RGBS, SDI,VGA, DVI
IS20090	National Display 19" 1280 x 1024 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
IS20190	National Display 23" 1920 x 1200 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
IS20290	National Display 32" 1366 x 768 Composite, S-Video, RGBS, SDI,VGA, DVI,YPbPr, HD-SDI
IS0774	VTS 18" 1280 x 1024 Composite, S-Video, RGBS, DVI,VGA,YPbPr
IS0775	VTS 18" 1280 x 1024 Composite, S-Video, RGBS, DVI,VGA,YPbPr,HD-SDI,SDI
IS0776	VTS 20" 1600 x 1200 Composite, S-Video, RGBS, DVI,VGA,YPbPr
IS0777	VTS 20" 1600 x 1200 Composite, S-Video, RGBS, DVI,VGA,YPbPr,HD-SDI,SDI
OEV191H	Olympus 19" 1280 x 1024 Composite, S-Video, RGBS,VGA
MAJ - 1431	This adapter is needed on OEV191H to have HD-SDI, SDI

UHI-3 Insufflation Unit

The UHI-3 facilitates laparoscopic observation with a smoke evacuation feature that maintains clear operative views when used with SonoSurg® or UES-40 systems, while its 35 L/min. insufflation quickly responds to gas leaks, allowing the surgeon to remain focused on the operative site.

- Eliminates smoke & mist
- Regulation of gas pressure
- Advanced warning features

Accessories:

- Light Sources
- Light Guide Cables
- Insufflation & Irrigation
- **Electrosurgery**
- Diathermy Cables
- Ultrasonic Dissection
- Workstations
- Video Monitors
- Video Recorders
- Video Printers

Electrosurgery

Olympus UES-40 Electrosurgery Unit
The UES-40 delivers a whole new level of sophistication to procedures. Utilizing an advanced automatic output control system, it monitors and regulates output to optimize both cutting and coagulation. In other words, cutting is sharper, coagulation is smoother, and reliability and efficiency are greatly enhanced, freeing the surgeon to concentrate on the procedure.

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The UES-40 is compatible with the SonoSurg Ultrasonic Surgical System, allowing high-frequency output using its transducer, further expanding surgical possibilities.

For further details on products available from **Olympus Surgical America** please call our customer services team on 800 548 5515 or complete our on-line inquiry form.

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M8607

Search: GO

OLYMPUS
Your Vision, Our Future

Heat Probe Unit

For endoscopic treatment of GI bleeding, the Heat Probe provides effective thermal hemostasis.

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Features
Certified Repair Service

Features & Benefits

- Thermal coagulation can control GI bleeding
- Teflon coating on the probe tip reduces tissue adhesion
- Irrigation ports on the probe tip permits water jets to wash the coagulation site
- Two channel sizes, 2.8mm and 3.7mm, accommodate a variety of clinical circumstances

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EVIS EXERA II VIDEO SYSTEM CENTER OLYMPUS CV-180

HDTV NBI

Main Features

- Equipped with high resolution HDTV imaging capability to provide the best possible image quality for endoscopes and laparoscopes, enabling observation of capillaries, mucosal structures, and other patterns.
- Compatible with EVIS 100/130/140 Series and EVIS EXERA 160 Series endoscopes in addition to EVIS EXERA II 180 Series models as well as bronchoscopes and surgical endoscopes (EndoEYE videoscopes, flexible VISERA videoscopes, and VISERA 1CCD/OTV-SP1 3CCD camera heads).
- NBI (Narrow Band Imaging) to enhance the visibility of capillaries and other structures on the mucosal surface (only for GI).
- Two types of structure enhancement are available — the original Type A for observation of larger mucosal structures with high contrast and the new Type B for observation of smaller structures, such as capillaries.
- Electronic magnification enlarges moving images at the touch of a button on the scope or on the keyboard by 1.2X or 1.5X.
- HD/SD SDI output for high-quality video image transfer.
- Convenient digital-to-digital recording of both still and moving images. Still images are stored on xD cards via PC card adapter, and moving images are stored on digital video recorders via IEEE 1394 (FireWire, DV, iLINK) using remote control switches.
- Automatic Iris eliminates the need for switching between Peak and Average required in conventional manual adjustment.
- Picture-in-picture display for any combination of endoscopic images, fluoroscopic images, ultrasound images, laparoscopic images, and images from the endoscope position detecting unit.
- Convenient index display for documentation.
- Scope ID function for easier endoscopy suite management and for next-generation system expansion.

Specifications

Observations	HDTV signal output	Either RGB or YPbPr output can be selected		
	SDTV signal output	VBS composite (NTSC/PAL), Y/C and RGB; simultaneous output possible.		
	White balance adjustment	White balance adjustment is possible using the white balance switch on the front panel.		
	Standard color chart output	A color bar chart can be displayed.		
	Color tone adjustment	The following color tone adjustments are possible. Red, Blue, Chroma adjustment; ±8steps		
	Automatic gain control (AGC)	The image can be electrically amplified when the light is inadequate due to the distal end of the endoscope being too far from the object.		
	Contrast	The image contrast can be set to one of the following three modes (N, H, L). ・N (Normal): Normal image. ・H (High): The dark areas are darker and the bright areas are brighter than in the normal image. ・L (Low): The dark areas are brighter and bright areas are darker than in the normal image.		
	Iris	The auto iris modes can be selected. Peak: For use when observing by focusing on a small bright area. Auto: For use when observing by focusing on the image center.		
	Image enhancement setting	Fine patterns or edges in the endoscopic images can be enhanced electrically to increase the image sharpness. Either the structural enhancement or edge enhancement can be selected.		
	Switching the enhancement modes	The enhancement level can be selected from 4 levels (OFF, 1, 2 and 3).		
	Image size selection	The size of endoscopic image can be changed.		
	Reset to defaults	The following settings can be reset to their defaults. ・User preset・Image source・Color tone・Freeze・Release index・ Zoom・Special light observation ・Arrow pointer・Stop watch・Character on screen・Exposure・PinP		
	Freeze	An endoscopic image is frozen.		
Documentation	Remote control	The following ancillary equipment can be controlled. (Specified models only) ・VCR・Video printer・Image filing system・Endoscopic ultrasound center, etc.		
	Patient data	The following data can be displayed on the monitor by keyboard. ・Patient ID No.・Patient name・Sex & age・Date of birth・Date of recording (time, stopwatch)・Image frame No. ・Videotape recorder mode・Display image setting・Physician name・Comments		
	Advance registration of patient data	The following data of up to 40 patients can be entered prior to surgery. ・Patient ID No.・Patient name・Sex & age・Date of birth・Physician		
PC card	Media	xD-Picture Card (1G/512/256/128/64/32/16 MB), specified by Olympus. MAPC-10 can be used as PC card adapter.		
	Recording format	TIFF: no compression, SHQ: approx. 1/5, HQ: approx. 1/7, SQ: approx. 1/10.		
	Number of recording images	In 16 MB, SDTV/HDTV, TIFF: approx. 30/6 images, SHQ: approx. 310/110 images, HQ: approx. 2000/760 images, SQ: approx. 2570/430 images.		
Image storage and retrieval	Monitor output	Using the monitor out switches on the front panel, it is possible to select an image from the endoscope or ancillary equipment for display on the monitor.		
Memory backup	Memorization of selected setting	The following setting are held in memory even after the video system center is turned OFF. ・White balance・Iris mode・Enhancement・Image size・Color tone		
Classification as medical electrical equipment	Type of protection against electric shock	Class I		
	Degree of protection against electric shock of applied part	Depend on applied part. See also applied part (Camera head videoscope).		
	Degree of protection against explosion	The video system center should be kept away from flammable gases.		
Power supply	Voltage (Voltage fluctuation)	220-240V AC (Within ±10%)		
	Frequency (Frequency fluctuation)	50/60 Hz (Within ±1%)	Consumption electric power	150 VA
Size	Fuse rating	5A, 250V	Fuse size	φ5 × 20 mm
	Dimensions	382 (W) × 91 (H) × 490 (D) mm	Weight	10.5kg

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

OLYMPUS®

www.olympus.com

OLYMPUS MEDICAL SYSTEMS CORP.
Shinjuku Monolith, 3-1 Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-0914, Japan
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31 Gilby Road, Mount Waverley, VIC., 3149, Australia

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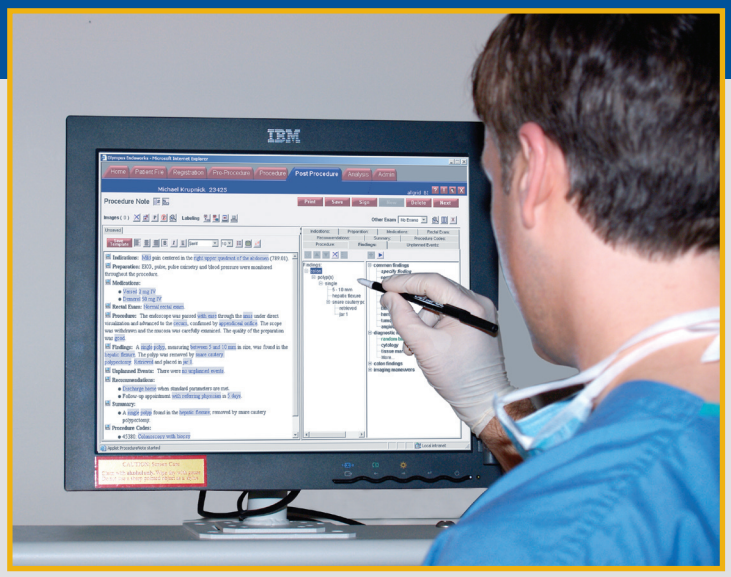
M8607

EndoWorks® 7.3

For GI and Pulmonary

EndoWorks® 7.3 is an integrated Web-based information management solution that spans all stages of patient care and increases productivity and efficiency. EndoWorks is simple to use and reduces paperwork, so you can focus on what is most important – your patients.



Access Anytime, Anywhere

- Browser-based access from any PC or wireless tablet outside the procedure room.
- Complete application functionality via the internet.

Increased Productivity

- Real-time interface with HIS/EMR systems for automated data flow.
- Instant access to comprehensive patient medical information and exam history.
- Standard and custom analysis reports for improved clinical practice management (quality, efficiency, equipment, exam and administrative reports).
- Automatically generate procedure reports, discharge instructions and referring physician letters.
- Report and letter distribution via fax or e-mail notification.

Time and Money Savings

- Reduce report transcription, chart storage and retrieval costs.
- Generate accurate billing codes for improved collections.

Scalable Functionality

- Configurable-on-demand to add modules as needed.
- Turn on or off module features to maximize ease of use.
- Configure application by clinical role or individual user to increase efficiency.

Data Security

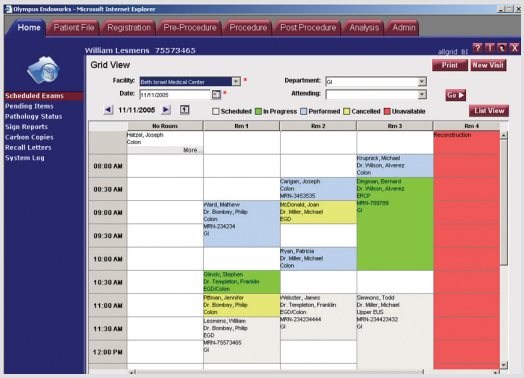
- User-based and role-based security.
- Automatic system timeout and audit controls.
- Security features for HIPAA regulation support.
- Unique e-mail notification system for secure information review.

Service and Support

- Software support expertise, with 15 years experience and over 1,700 customer installations.
- 24-hour helpdesk.
- On-site support from field engineers.
- Education and customization services.
- EndoWorks 6.x legacy data/image conversion.

OLYMPUS®

Your Vision, Our Future

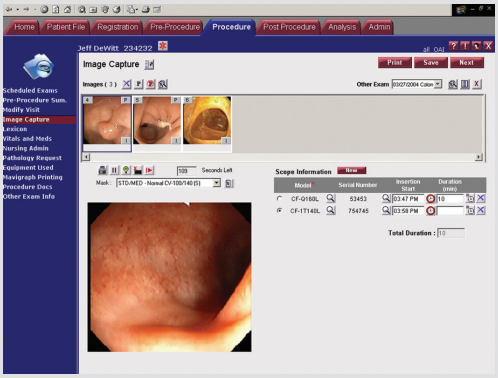


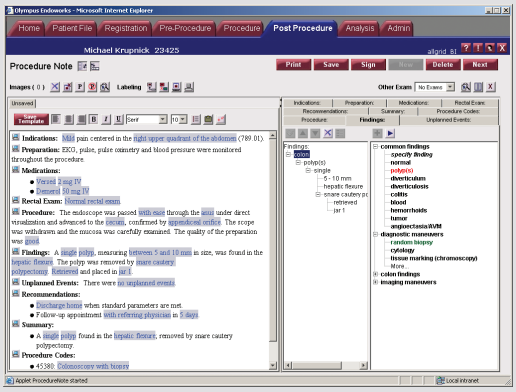
Patient/Exam Data Capture

- Schedule patients based on physician/room availability.
- Track patient encounter status via color-coded grid.
- Capture clinical data across all stages of patient care.
- Import scanned documents.
- Export exam documents as PDF files.
- Record scope, accessory and equipment usage during exam.

Image Management

- Capture and store images and video clips.
- Automatically record scope model and serial number.
- View live image on computer monitor.
- Perform uninterrupted image capture in remote location or down-network situation.
- Label, annotate and enhance captured images.





Procedural Reporting

- Intuitive keyword interface engine and extensive clinical knowledgebase (based on MST).
- Template-based reports, customized at the user or facility level.
- Physician, nurse and patient reports and letters.
- Comprehensive ICD-9/CPT-4 billing codes, updated regularly.
- Electronic signature capabilities.

HL7 Interfaces

- HL7 standard conformity.
- Inbound ADT, Scheduling and Orders.
- Outbound Results.
- Outbound PDF file support.
- Outbound image support.

EndoWorks 7.3

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www.endoworks.com

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EQUIPMENT DATA

EQUIPMENT DESCRIPTION: ENDOSCOPY CART, VIDEO, (CCD) SCOPE, W/INFO MGMT
ITEM SYMBOL: M8611
MANUFACTURER: PENTAX PRECISION INSTRUMENT CORP **LOGCAT:** C
EXT.DIM.: 37.5"H X 43"W X 24.6"D **SEISMIC:** NO **WEIGHT:** MULTIPLE WEIGHTS

HVAC

HEAT GAIN (BTU/HR)

VENT SIZE:

REMARKS:

PLUMBING

HOT WATER
SIZE:
PRESSURE:
FLOW RATE:
TEMP.:

COLD WATER
SIZE:
PRESSURE:
FLOW RATE:

TREATED WATER
TYPE:
SIZE:
PRESSURE:
FLOW RATE:

STEAM
SIZE:
PRESSURE:
FLOW RATE:

DRAIN
SIZE:

RETURN
PUMPED:
GRAVITY:
SIZE:

	SIZE	TYPE	PRESSURE
OXYGEN:			
AIR:			
VACUUM:			
N20:			
NITROGEN:			
GAS:			

REMARKS:

ELECTRIC

VOLTAGE: 120 **AMPS:** **WATTS:**

PHASE: 1 **HZ**

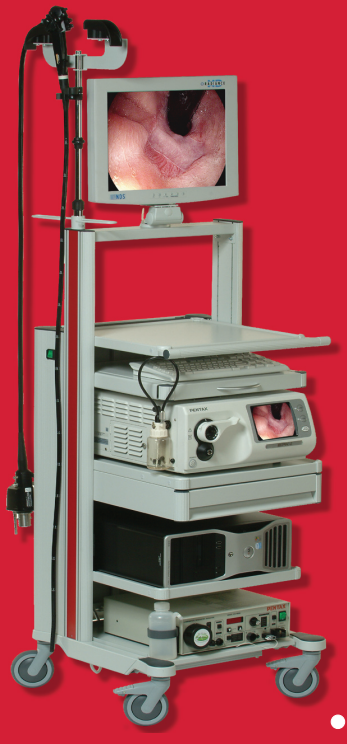
REMARKS:

SPECIAL REQUIREMENTS:

DATE: JUNE 7, 2011

M8611

PRECISION SERIES CARTS SPECIFICATION SHEET



ENGINEERED QUALITY. ENGINEERED EFFICIENCY.

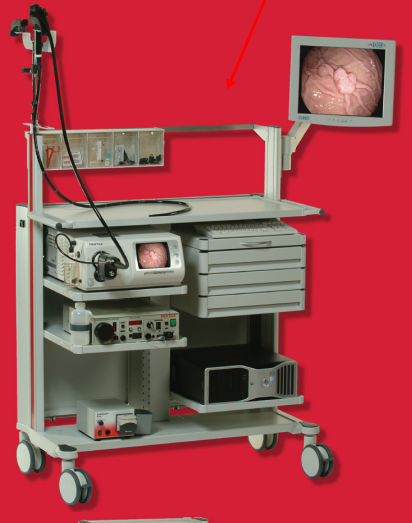
PENTAX
EMPOWERING EXCELLENCE
1.800.431.5880 | www.pentaxmedical.com

PENTAX offers an exceptional line of industrial strength carts created to match your unique preferences and demands. This versatile line includes everything from carts designed to hold a generous amount of equipment and storage to carts for space-conscious labs.

The Precision Series is engineered to carry heavy lab equipment for efficient room set-up and easy transportation between procedure rooms. All carts feature adjustable shelves for added flexibility and durable wheels with brakes. And all Precision Series carts are delivered directly to the user – fully assembled!

TRAVEL CART

Order #	Description	Dimensions (HxWxD)
80182	Travel Cart	37.5" x 43" x 24.6"
80231	Travel Cart with Flat Panel Monitor Arm	37.5" x 43" x 24.6"



STANDARD CART

Order #	Description	Dimensions (HxWxD)
80233	Standard Cart with Mount for Flat Panel Monitor	50" x 24" x 24.6"

COMPACT CART

Order #	Description	Dimensions (HxWxD)
80225	Compact Cart	37.5" x 24" x 24.6"
80242	Compact Cart with Flat Panel Monitor Arm	37.5" x 24" x 24.6"

ECONOMY CART

Order #	Description	Dimensions (HxWxD)
80226	Economy Cart	50" x 19.5" x 24.6"

Sony's DVO-1000MD Medical DVD Recorder

Put it to work in your imaging lab or operating room

Building on Sony's proven track record in product design and innovation, Sony introduces a medical DVD recorder unlike any other – the DVO-1000MD model designed specifically for medical videorecording. Combining user-friendly operation with highly intelligent DVORECOVERY™ and DVOFAST™ features, this recorder is the DVD authority you'll want to put to work in your imaging lab or operating room.

DVORECOVERY Feature – Built-in for reliable video recovery

A built-in 80 Gig hard drive enables the DVO-1000MD model to record video simultaneously on the hard drive and on the DVD+RW disc. The DVORECOVERY feature allows you to recapture video from the hard drive in the event of unexpected power failure or if you forgot to print the images before you shut down your printer. In addition, if you need to make a referral copy, you can simply duplicate a video session from the hard drive. With the DVORECOVERY feature on your side, your video is kept safe and intact.

DVOFAST Feature – Faster work speed for faster workflow

To help keep the workflow moving, the recorder's unique DVOFAST feature makes it possible to eject the DVD in less than two minutes after recording, requiring no disc finalization. Compared to the industry standard 5 to 15 minute wait time, this less than two-minute turn-around is a dramatic time saver for imaging technicians.

Advanced sounds and images for medical applications

Capturing images with the utmost picture clarity is an essential criteria of medical image recording. To achieve that high level image quality, the DVO-1000MD recorder employs MPEG-2 video compression, and for excellent sound reproduction, records audio signals in the Dolby® Digital Stereo format.

A Day in the Life of DVO...

9:03 AM
Dr Green's medical technician performs an endoscopy, which is recorded on the DVO-1000MD Medical DVD Recorder

9:15 AM
Next endoscopy patient arrives (no need to wait for DVD finalization of previous recording)

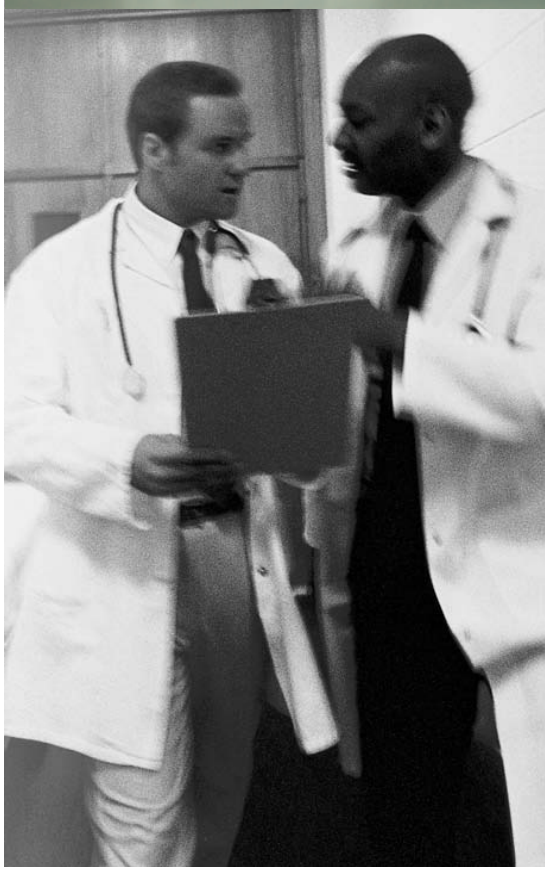
12:30 PM
Dr. Green performs a surgery, which is recorded on the DVD-1000MD

1:00 PM
Electrical storm causes power failure in the O.R. The emergency generator powers up – but no video is lost because it was recorded to the DVO's built-in hard drive.

4:00 PM
Dr. Green reviews the surgical video and using the CANOPUS® editing software package, prepares the presentation to colleagues and interns.

9:00 PM
Dr. Green plays back and reviews the video presentation at home on his consumer DVD player.

DVO-1000MD



General

Power Requirements	AC 100 V to 240 V, 50/60 Hz
Power Consumption	35 W
Operating Temperature	+5 to +40°C
Storage Temperature	-20 to +60°C
Operating Humidity	20 to 80%
Dimensions	8 3/8 x 5 x 15 inches (212 x 128.5 x 382 cm)
Mass	13 lb 4 oz (6 kg)
Recording System	DVD Recording, NTSC/PAL Switchable
Recording Format	Video: MPEG-2 compression Audio: Dolby Digital format
Recordable Media	DVD+RW (2.4x and 4x speed)
Recording Time	HQ Mode: 60 minutes
SP Mode	120 minutes
LP Mode	180 minutes
Medical Standards	EN60601-1, EN60601-1-2, UL60601-1, CSA C22.2 No.60601.1

Input/Output

Analog Composite Input	BNC x2, with loop-through, unbalanced, 1.0 Vp-p, 75 Ω
S-Video Input:	4-pin DIN x2, with loop-through Y: 1 Vp-p, 75 Ω, unbalanced C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL), 75 Ω, unbalanced
Analog Composite Output	BNC x1, 1±0.2 Vp-p, 75 Ω, unbalanced
S-Video Output	4-pin DIN x1 Y: 1.0 Vp-p, 75 Ω, unbalanced C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL), 75 Ω, unbalanced
Analog Audio Input	RCA Pin x2 (L/R), 2 Vrms (full bit), input impedance 47 kΩ
Analog Audio Output	RCA Pin x2 (L/R), 2 Vrms (full bit), load impedance 47 kΩ
Monitor Audio Output	Monitor RCA Pin x1, 2 Vrms (full bit), load impedance 47 kΩ
i.LINK (DV IN)	i.LINK 6-pin x1, IEEE1394
Remote Control	RS-232C x1, D-sub 9-pin Remote1 x1, stereo mini jack (for connection with the optional SVRM-100A/DSRM-10 controllers) Remote2 x1, stereo mini jack (for connection with the optional FS-20 foot switch) USB 2.2 x1 (Full Speed)

Supplied Accessories

	Operations manual, Protocol manual

Optional Accessories

- DSRM-10 Remote Control Unit
- SVRM-100A Remote Control Unit
- FS-20 Foot Switch
- VMC-IL4615B/IL4435B i.LINK cable (6-pin to 4-pin)
- VMC-IL6615B/IL6635B i.LINK cable (6-pin to 6-pin)

DPW120MD

SONY

Sony Electronics Inc.
1 Sony Drive
Park Ridge, NJ 07656

*i.LINK is a Sony trademark used only to designate that a product is equipped with an IEEE1394 connector. Some products with an i.LINK connector may not communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions, and proper connection.

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Printed in USA 6/05
ME-DVO1000

PENTAX

PENTAX Medical Company – A Division of PENTAX of America, Inc.

Universal Generator-Irrigator

CGI-4000B

The CGI-4000B is specifically designed for the clinical and practical needs of today's endoscopy suite. This unit is equipped with a Microprocessor Controlled Output, which provides unsurpassed precision, accuracy, repeatability and safety. It maintains proper output as tissue impedance changes during procedures such as polypectomy and sphincterotomy. The CGI-4000B also features Self Diagnostics, Patient Electrode Monitoring System, Unique Accessory Test Mode and a BICAP® compatible Output. This compact, multi-function, therapeutic unit easily fits on the endoscopy cart.

Electro Cautery		
Order Number	Model ID	Description
KUM67040	CGI-4000B	Universal Generator-Irrigator: Monopolar, Bipolar, Irrigation Pump, with Testing Fixture Capability

Specifications		
Electrical	Input Voltage	95-135VAC 50/60Hz or 190-250VAC 50/60Hz
	Input Current	4 amps max. or 2 amps max.
	Low Frequency Leakage	less than 100 micro-amps
Physical	Dimensions	15" wide x 5" high x 14 1/2" deep
	Weight	17 pounds
Irrigation System	Reservoir	500 ml (1000 ml optional)
	Flow Rate	150-650 ml/minute
	Pressure	2-40 psi
Monopolar Output	RF Output Frequency	500 KHz (± 10%)
	RF Output Power Cut (100% duty cycle) Blend 1 (50% duty cycle) Blend 2 (25% duty cycle) Blend 3 (12% duty cycle) Coag (6% duty cycle)	 6-100 watts RMS* 6-100 watts RMS* 6-100 watts RMS* 6-100 watts RMS* 6-80 watts RMS* *stable 100-800 ohms (calibration at 400 ohms)
	RF Output Voltage	1100 volts p-p (open circuit, max CUT)
	RF Isolation	less than 150 milli-amps
BICAP® Compatible Output	RF Output Frequency	600 KHz (± 10%)
	RF Output Power (in 2 watt increments)	6-50 watts RMS (at 25 ohms)

Electrosurgical Probes	
Order Number	Description
82161	Bipolar Coagulator Probe, 7 FR (2.3mm), 300 cm, Single Use
82123	Bipolar Coagulator Probe, 7 FR (2.3mm), 400 cm, Single Use
82162	Bipolar Coagulator Probe, 10 FR (3.3mm), 300 cm, Single Use

PENTAX

PENTAX Medical Company – A Division of PENTAX of America, Inc.

Suction Pump

Standard

The CPI Model 6260 Aspirator is simple, portable and reliable. Designed to suit the needs of the professional in the hospital, nursing facility or physicians office, this heavy duty unit has a durable lightweight base, and an adjustable vacuum range up to 22" Hg.

PRIMARY APPLICATION

ENT drainage, tracheal suctioning, bronchoscopic and proctologic suctioning.

STANDARD FEATURES

Vibration-free, easy-to-read regulator gauge for more accurate readings.

Quick-connect tubing for all connections.

Thermal protected motor prevents pump damage.

Optional deluxe mobile aspirator stands.

Permanent lubrication for long-term, maintenance-free operation.

New high-impact plastic base eliminates corrosion.

New sealed, watertight on/off switch mounted on base.

Power cord mounted to base for easy replacement.

New valve control provides quicker recovery times.

New one piece handle with catheter resting slot.

Standard Suction Pumps		
Order Number	Model ID	Description
67049	Standard	Suction Pump, Includes Collection Bottle and Hydrophobic Filter

Pentax Standard Suction Pump

Accessories	
Order Number	Description
67051	Tubing, 18" & 6' with connections for suction pump 67049
67053	Suction Cannister, 40oz, Autoclavable for suction pump 67049
67055	Felt Silencer for suction pump 67049
67056	Hydrophobic Filter for suction pump 67049

PENTAX

PENTAX Medical Company – A Division of PENTAX of America, Inc.

LH-150PC

150W Halogen Light Source

(click for brochure - Acrobat Format 197KB)

The lightweight LH-150PC includes a built-in pump system that effectively delivers air/water.

Brighter Lamp

The LH-150PC includes a powerful 150W halogen lamp which supports excellent image quality.

Built-in Air Pump

The LH-150PC incorporates an air pump to deliver air/water for G.I. endoscopes.

Compatibility

By changing to an appropriate adapter, the LH-150PC can be used with other manufacturers' rigid and flexible endoscopes.

Specifications		
Product	Order Number	66107
	Model Number	LH-150PC
Illumination	Lamp	150W Halogen
	Lamp Life	50 hours, continuous use
Power Requirement	Voltage	120VAC/230 VAC
	Frequency	50/60Hz
	Power Consumption	200VA
Air Feeding	Pump Type	Vibrator
	Pump Pressure	41-62kPa

Classification (Electro Medical Equipment)	Type of Protection Against Electric Shock	Class I (3-core cord)
	Degree of Protection Against Electric Shock	Type BF - Incorporates insulated patient attachment
	Degree of Protection Against Explosion	Keep away from flammable gases
Additional Information	Auxiliary Socket	Interchangeable
	Dimensions	W 145mm x H 177mm x D 305mm
	Weight	6kg

Adapters - Pentax Light Sources/Video Processor to Non-Pentax Endoscopes		
Order Number	Model Number	Description
84011	AL-MF1	Adapter for Machida Endoscope
84018	AL-OF5	Adapter for Olympus OES Endoscope
84030	AL-OR1	Adapter for Olympus Rigid Style Light Guide Plug
84033	AL-SF1	Adapter for Karl Storz Endoscope

Adapters - Pentax Light Sources to Pentax Endoscopes		
Order Number	Model Number	Description
86188	OL-H3	Adapter for Pentax Light Source to Pentax Endoscope

Replacement Lamps		
Order Number	Model Number	Description
86186	OL-H1	LH-150 Series Lamp Kit, 150W Halogen Lamp
86303	OL-H2	LH-150PC/150II Series Lamp Kit, 150W Halogen Lamp

Endoscopic Support Accessories		
Order Number	Model Number	Description
86526	OS-H4	Water Bottle Assembly, Autoclavable

RETURN TO LIGHT SOURCES & ADD-ON CAMERAS PRODUCT MENU

PENTAX

PENTAX Medical Company – A Division of PENTAX of America, Inc.

EI-400C

Endo Irrigator Pump

Designed as an aid for the endoscopist, the Endo Irrigator EI-400C, allows the delivery of a pressurized lavage to improve visualization during difficult procedures. The Endo Irrigator is especially useful during a colonoscopy or sigmoidoscopy of a poorly prepped bowel, during laser procedures, and during procedures with active hemorrhage. This compact, lightweight unit is designed to easily fit on the endoscopy cart.

FOOTSWITCH CONTROL

The endoscopist has complete footswitch control, freeing the assistant to perform other activities. This is especially convenient with endoscopes having integral jet channels.

VARIABLE FLOWRATE

Output is easily adjusted from a virtual trickle to a forceful high volume lavage.

IRRIGANT RESERVOIR

Offering the convenience of a 500ml capacity irrigation bottle (1000ml optional), a standard luer type tubing connector allows easy attachment to alternative fluid services.

ENDOSCOPE DISINFECTIONS

Operating in its continuous flow mode, the EI-400C

HIGH VOLUME LAVAGE

Delivers over 500ml/minute when attached directly to the working channel of an endoscope. This allows rapid cleansing of the site, especially during a colonoscopy of a poorly prepared patient, which may allow completion of a procedure that might otherwise be discontinued.

Specifications	
Order Number	67057
Model Number	EI-400C
Voltage	95~135 VAC 55/60Hz 190~250 VAC 55/60Hz (on request)
Current	1 amp

Pentax Endo Irrigator

Dimensions	5" wide x 4 1/2" high x 8" deep
Weight	6 1/2 lbs.
Flow Rate	15-650 ml/minute
Pressure	2-40 psi
Reservoir	500ml (1000ml optional)

TUBING CARTRIDGE

Replaceable Accessories	
Order Number	Description
90046	Cartridge with Silicone Tubing for EI-400C, includes luer and end-fittings
86337	Standard Irrigation Bottle, with mounting support bracket, capacity 500ml
86345	Large Irrigation Bottle, with mounting support bracket, capacity 1000ml
90051	Pneumatic Footswitch with integral tubing, waterproof to avoid electrical hazard
90050	Endo Irrigator Connecting Tubes, with luer lock connectors. Length 60 inches. Box of 12
84110	Endo Irrigator Endoscope Channel Adapter
82171	Patient Return Electrodes, Self-Adhesive, Single Use 25 per Box

PENTAX

PENTAX Medical Company – A Division of PENTAX of America, Inc.

PSV-4000

Medical Video Camera for Endoscopy

(click for brochure - Acrobat Format 140KB)

(click for MiniVision - Acrobat Format 93KB)

PENTAX offers a Video Add-On Camera for use with Pentax Fiberscopes. A simple connection allows the endoscopist to view a sharp, clear video image on a monitor rather than through the fiberscope eyepiece.

Quality - That's what really counts.

PSV-4000 Highlights

Specially designed for use with fiberscopes

Various optical adapters with anti-moire filters

Fully immersible camera head

Automatic white balance and manual color control

Automatic electronic shutter for optimal exposure

Optional keyboard hook-up

Possibility to enter on-screen patient data from keyboard

On-screen menu control from keyboard or camera head buttons

Five individual preset parameters Set by User

On-screen time/date clock and stop watch

RS-232C link for computer communication

Remote operation of peripheral devices from camera head button

Multiple parallel outputs:
composite video, Y/C and RGB

Easy replacement of camera head cable

Specifications		
Product	Order Number	KUM98023
	Model Number	PSV-4000

Camera Control Unit	Minimum Illumination	Less than 1.5 Lux @ F 1.2
	Scanning System	2:1 Interlace
	Horizontal Resolution	470 horizontal TV lines
	Signal/Noise Ratio	Greater than 46dB @ AGC off
	Gain Control	Automatic Gain Control and Manual Gain Boost
	Electronic Shutter Speeds	1/50 (PAL) or 1/60 (NTSC) to 1/250,000 seconds
	Video Outputs	2 x composite video signal 2 x S-VHS (Y/C) signal 1 x RGB signal
	Front Panel Controls	White Balance, Gain, Brightness, Colors
	White Balance	Automatically adjusted by front panel button in less than I second
	Power Supply	90-264 V AC, 50/60 Hz automatic
	Regulatory Approvals	IEC 601-1, IEC 601-1-2
	Operating Environment	Ambient temperature 10 to 40-C (50 to 104-F) Relative humidity 30 to 85% Air pressure 700 to 1060 hPa
	Dimensions	295 (W) x 75 (H) x 253 (D) mm
	Weight	2.1kg
Camera Head	Dimensions	33 x 33 x 46 mm
	Weight (without cable)	40g (excluding optical adapter)
	Pick-up System	Interline transfer CCD 1/3" image sensor
	Number of Pixels	470,000 (PAL) / 410,000 (NTSC)

PSV-4000 Lenses	
Order Number	Description
84115	Anti-Moire Lens, with Microfocus, 22mm

PSV-4000 Standard Eyepiece Adapters	
Order Number	Description
84123	Eyepiece Adapter for Fujinon Fiberscopes to PSV-4000 Lenses
84138	Eyepiece Adapter for Rigid Ocular Scopes to PSV-4000 Lenses
84139	Eyepiece Adapter for Pentax Fiberscopes to PSV-4000 Lenses

84140	Eyepiece Adapter for Olympus OES Fiberscopes to PSV-4000 Lenses

PSV-4000 Eyepiece Adapters with Centering Mechanism	
Order Number	Description
84128	Eyepiece Adapter for Rigid Eyepiece to PSV-4000 Lenses
84141	Eyepiece Adapter for Pentax Fiberscopes to PSV-4000 Lenses
84142	Eyepiece Adapter for Olympus OES Fiberscopes to PSV-4000 Lenses

RETURN TO LIGHT SOURCES & ADD-ON CAMERAS PRODUCT MENU

EPK-i

Product PDF Brochures »

The EPK-i HD Digital Video and Image Processor is a progressive scanning, true-color processor uniquely built on a computer-based platform. By being the only image processor using digital computing power, the EPK-i becomes a powerful asset in not only orchestrating the highest resolution HD images and video in the endoscopic market, but it also becomes the brains behind a number of powerful automating and streamlining productivity tools. Coupled together in one, easily networkable, compact box, we invite you to explore the many technologies the EPK-i brings to both optimal patient care and optimal productivity:

PENTAX i-SCAN – multimodal image enhancement technologies
HD-MPS – with endoPRO iQ, the EPK-i is the only endoscopic processor that can capture both HD images and video
PENTAX i-TRAC – electronic timestamping for automated productivity and procedural benchmarking
PENTAX i-STAR – remote virtual technical assistance and preventative maintenance

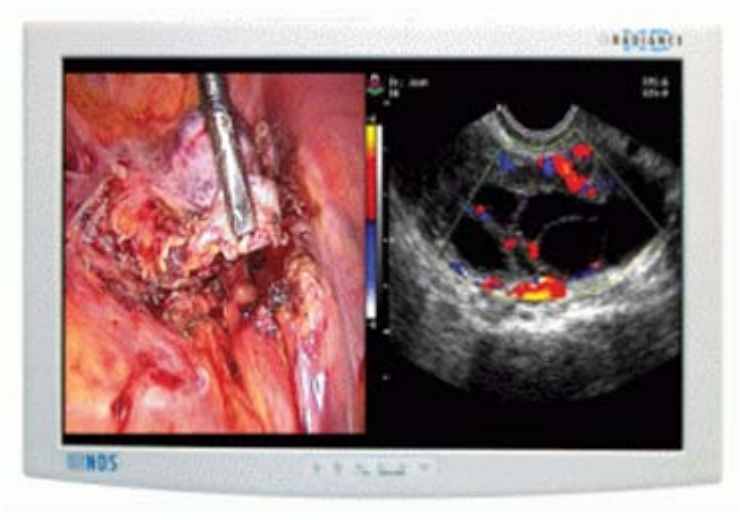
Complete with a sleek LCD panel for quick and intuitive interfacing (which also doubles as a secondary procedure monitor), the EPK-i is an intelligent technology which is flexible and adaptable to your own technological environment – and can grow with you over time through updates and scalability.

The EPK-i is compatible with all PENTAX 90 i-FLEX, K-Series and Fiberscopes.
Specifications

Color System	Color System Single CCD
High Definition Video Output	DVI-D SXGA (Native)
Standard Definition Video Output	RGBS Y/C Composite (NTSC) DV
Network Connector	RS-232C x1 USB Serial x2
Advanced Image Processing	Advanced Contrast Enhancement

Lamp	300W Xenon Short Arc
Auxillary Lamp	3W LED (Class 1)
Air/Water Supply	Select from 5 intensities
External Device Controls	Printer Control Connector x1 Configurable External Device Control Connectors x3
Voltage	120V AC
Current	5.4A
Frequency	50-60Hz

PENTAX
EMPOWERING EXCELLENCE℠



Radiance HD 26" Monitor NDS26HD Product PDF Brochures »

The 26” Widescreen Radiance High-Definition LCD display incorporates the latest in digital imaging technology for outstanding image reproduction. It features WUXGA 1920 x 1200 resolution, ultra-wide 170° viewing angle, 5-12ms response time and the ability to reproduce two video inputs on-screen simultaneously. Digital inputs: SDI / DVI-D. Analog inputs: RGBS / VGA / S-Video / Composite. Widescreen aspect ratio.

Specifications

Viewable Area (Diagonal)	25.5 in.
Native Resolution	1920 x 1200 (WUXGA)
Contrast Ratio	800:1
Aspect Ratio	16:10
Response Time	5-12 ms
Multi-Modality Capable	YES
Voltage	24V DC
Dimensions (H x W x D)	24.7 x 16.8 x 3.95 in.
Weight	18 lbs
Mounting	100mm VESA

M8611

RADIANCE® SERIES

High-Definition, Multi-Modality Imaging

HD MULTI-MODALITY

RADIANCE HD

The NDS Radiance® Series is the most advanced and comprehensive HD visualization system for Minimally Invasive Surgery and Interventional procedures. Regarded as the global industry standard for the Digital OR , the Radiance® incorporates NDS' preeminent Advanced Image Processing (AIP) technologies delivering a unique multi-modality platform for images from different sources – Endoscopic camera, fluoroscope, ultrasound, PACS, vital signs, pathology, or others. Fully compliant for medical use in Surgery, the Radiance ® systems offer exceptional image quality, optical clarity, consistency, performance, and an ergonomic design.

- High Definition Imaging with Exceptional Contrast
- Multi-Modality Imaging Benefits
- Fully Compliant with OR Video Control Applications
- Multiple Surgeon Specific, User-Selectable Settings
- Industry's Largest Selection of Size and Format
- Radiology Response DVI Input for PACS

M8611

RADIANCE® SERIES

High-Definition, Multi-Modality Imaging

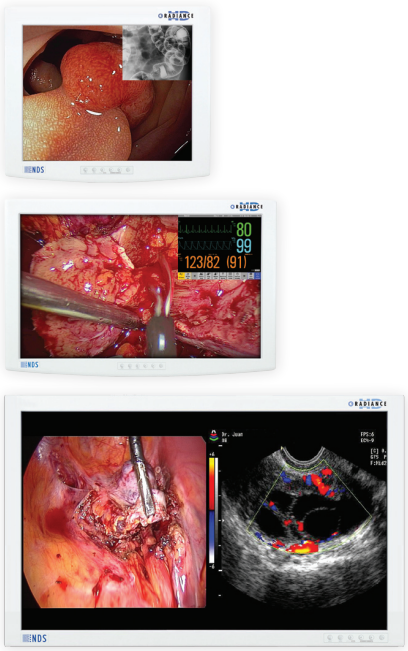
IMAGE PERFORMANCE

LCD Panel	Active Matrix with In-Plane Switching (IPS)
Dimensions (Diagonals)	19, 23, 26, 32, 37, 42, 55
Resolution (H x W)	SXGA, WXGA, WUXGA (HD)
Viewing Angle/Response Time	178˚ / 10-16ms
Color Gamut	100% (SMPTE 296M, HD Standard)
Gamma	1.8, 2.0, 2.2, 2.4, 2.6, Color-Corrected Video Gamma & PACS
Multi-Modality Support	YES
Surgeon Selectable Presets	YES

SUPPORTED DEVICES/APPLICATIONS

SOURCE	APPLICATION
HD-SDI, HD-RGBS, HD-YP_bP_r	HD Endoscopy
RGBS, YP_bP_r, SDI	SD Endoscopy
Sync-On-Green (SOG)	Fluoroscopy, Angiography
DVI with Fiber Support	PACS, X-Ray, MRI, CT, HD Endoscopy, Vital Signs
S-Video, Composite	Fluoroscopy, SD Endoscopy, Ultrasound
VGA	PACS, Radiology Imaging, Endoscopy, Ultrasound, Angiography

MULTI-MODALITY IMAGING



COMPLIANCE & CERTIFICATIONS

UL 60601.1; EN 60601; MDD 93/42/EEC; CE; ISO 9001:2000 and ISO 13485:2003; CAN/CSA C22.2 NO. 601.1 & CCC Class I Medical Device; FDA Registration #2954921; RoHS

ABOUT NDS SURGICAL IMAGING

At NDS Surgical Imaging (NDS), our vision is built upon the unique ability to supply the medical profession with technologies that enable practitioners to *integrate images* from many sources, *visualize a defect* or condition within the body and to *perform an intervention* that improves the quality of care.

Founded in 1996, NDS is a privately held company in Silicon Valley with US-based manufacturing, R&D facilities and Global sales and service offices. Today, NDS dominates visualization technologies for surgical markets and is considered as the industry standard for digital OR. As the company moves into the next decade, NDS will deliver preeminent technologies and solutions that will enable future surgical and interventional procedures. All NDS products are medical grade devices certified under the most stringent U.S., European and Asian safety and environmental standards.

Learn more about NDS products at: ***www.ndssi.com/products***

NDS SURGICAL · IMAGING

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Doc #60S0001

SONY

UP-55MD/HD
High Definition A5 Color Video Printer with USB Digital Capture Capability

Incorporating the same trusted design and functions of the popular UP-55MD, the UP-55MD/HD includes the added capability of accepting 1080i or 720p HD video signals and producing prints with full HD resolution in a widescreen aspect ratio. For added flexibility, the UP-55MD/HD also accommodates SD signals and can be set to automatically detect the signal type (SD, 1080i or 720p). Additionally, the UP-55MD/HD can down convert the HD signal to SD definition when outputting to a standard definition video monitor source.

The UP-55MD/HD printer includes a USB interface that allows the user to capture HD still images that are printed and store them on a small, portable USB storage device, like the Sony MicroVault™* media. With Sony's ImagePort™ Technology, HD images can later be imported into a laptop or PC for medical reporting, PowerPoint® presentations, referrals, or educational purposes. The UP-55MD/HD printer is an ideal choice for printing in HD endoscopy modalities, as well as ultrasound and other medical and scientific applications.

- Accepts 1080i or 720p HD video signals and SD video signals**
- 16:9 widescreen aspect ratio
- ImagePort Technology-USB Interface allows for storage of printed images on portable USB media
- 379 dpi with 16 million color gradations
- Approximately 20 second print speed
- 1, 2, 3, 4, 8 up multi-image print capability

*Not all USB flash memory cards are compatible and image can only be loaded on PC or laptop. USB is uni-directional meaning images cannot be printed on printer from USB device.

**An optional external signal conversion box may be required depending upon the HD camera system specifications. Ask your Sony Sales Representative for details.

Specifications

Printing Method	Dye Sublimation
Resolution	379 dpi
Printable Pixels	2528x1920 dots (SD 4:3 1up) 2528x1422 dots (HD 16:9 1up)
Total Gradation	256 gradations for yellow, magenta, cyan; over 16.7 million colors per dot
Printing Time	High Speed: 20 seconds (approximate)
Max. Print Area	6 3/4" x 5 1/8" inches (169.4 x 128.6mm)
Paper Size	UPC-55 — 7 1/8" x 6" inches (178 x 152mm)
Media Capacity	100 sheets
Power Requirements	100-120V AC, 50/60Hz 220-240V AC, 50/60Hz
Max. Power Consumption	100-120V: 2.8A, 220-240V: 1.2A
I/O Interface	RGB + Sync, YCbCr (SD), YPbPr (HD), Composite Video, S-Video
Control Connectors	RS-232C (D-Sub 25 Pin Connector) Infrared remote-control command Remote 1 : SARCS, RM5500 Remote 2 : RM91/FS20/FS24
USB Host Port	USB Flash Memory*
Image File Format	JPEG only
Image File Size	SD image: approx. 1440 x 1080 dots (square pixel); approx. 300 KB (varies) At 1080i: approx. 1920 x 1080 dots; approx. 400KB (varies) At 720p: approx. 1280 x 720 dots (square pixel); approx. 250KB (varies)
Memory	8 Frame Memory
Dimensions	11 1/8 x 5 x 15 3/4 inches (w/h/d) (excluding projection parts) 280 x 125 x 398 mm (w/h/d)
Weight	19lb. 13oz. (Approx. 9 kg)
Compliance	UL60601-1 listed, CSA C22.2 No. 601-1, FCC Class A, EN 60601-1, EN55022, EN 60601-1-2, GB4943, VCCI Class A
Supplied Accessories	UPC-55 Color Media (100 sheet starter pack and 1 ribbon) USB MicroVault storage media with 1 GB capacity, or larger Paper Tray, Ribbon Holder, AC Power Cord, Owner's Manual
Optional Accessories	UPC-55 Media Print Pack 200 sheets (2 x 100 sheets and 2 x ribbons) USB Flash Memory storage devices**

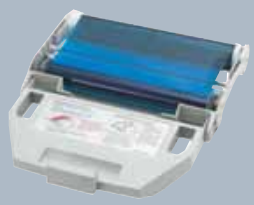
* Not all USB flash memory cards are compatible and image can only be loaded on PC or laptop.
USB is uni-directional meaning images cannot be printed on printer from USB device.
** Sony Media Solutions Company offers many other USB MicroVault choices.

MicroVault – USB Storage Media

UP-55MD/HD Back Panel

Optional Accessories

UP-55MD/HD Media Tray



UP-55MD/HD Media Tray

Print Media

UPC-55 Media Print Pack

SONY

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1 Sony Drive
Park Ridge, NJ 07656

www.sony.com/medical

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Caution: See product labeling for indications, contraindications, warnings, cautions and directions for use.